



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/823,125	03/30/2001	Hernan G. Otero	21710-68378	6818
28062	7590	05/04/2006	EXAMINER	
BUCKLEY, MASCHOFF, TALWALKAR LLC			OYEBISI, OJO O	
5 ELM STREET			ART UNIT	PAPER NUMBER
NEW CANAAN, CT 06840			3628	

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/823,125	Applicant(s) OTERO ET AL.	
	Examiner OJO O. OYEBISI	Art Unit 3628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 8-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This office action is responsive to applicant's Request for Continued Examination (RCE). In the RCE filed on 02/17/06, the following have occurred: Claims 1-6 and 8-14 are pending in the application, with Claims 1, 6, 8 and 9 having been amended. Claims 1, 6, 8 and 9 are the independent claims herein.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/17/06 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1-2, 5, 8-14** are rejected under 35 U.S.C 102(e) as being anticipated by Kane (U.S. Patent 6,317,728).

Re claim 1: Kane discloses a method for computerized trading comprising:

- A human being entering parameters for a trading algorithm to input a trading order into a logic engine (i.e., decision logic, see abstract, also see "WealthBuilder also allows customer override and entry of trading commands", col.8 lines 20-36).
- using a first plug-in (i.e., agent) in said logic engine for implementing the trading algorithm (see col. 5, lines 5-10).
- inputting data for said order into said logic engine (see abstract).
- processing the order with said logic engine, using said plug-in (see abstract).
- executing said order (see abstract)
- said human being monitoring said order in real time (i.e., WealthBuilder also provides a real time internet client allowing users to monitor trade execution and position values held so that a customer can feel connected to the trading environment. The computer makes the decisions but can be monitored remotely, see col.8 lines 20-35).

Re claim 2: Kane discloses a method wherein the step of inputting a trading order into a logic engine further comprises inputting an order through an ordering system (i.e., data acquisition system, see abstract).

Re claim 5: Kane discloses a method wherein the step of executing said order further comprises outputting said order through an ordering system (col. 3, lines 34-36).

Re claim 8: Kane discloses an apparatus for computerized trading comprising:

- a logic engine for processing trading orders (see abstract);

an interface to said logic engine to receive from a human being parameters for a trading algorithm(data channel, see fig 1, elements 12, 13) and to allow the human being to monitor said order in real time (i.e., WealthBuilder also provides a real time internet client allowing users to monitor trade execution and position values held so that a customer can feel connected to the trading environment. The computer makes the decisions but can be monitored remotely, see col.8 lines 20-35).

- a first plug-in (i.e., agent) in said logic engine (i.e., decision logic) for implementing the trading algorithm (see col. 5, lines 5-10). Whereby said logic engine processes order received via said interface (see col. 5, lines 2-11); wherein said logic engine, said interface and said first plug-in are software recorded on a computer-readable medium and capable of execution by a computer.

Re claim 9: Kane discloses an apparatus for computerized trading comprising:

- a logic engine (i.e., decision logic) for processing trading orders (see abstract);
- a first interface (i.e., input) to said logic engine for processing orders from a human being parameters for a trading algorithm (i.e., each decision agents representing a respective buy and a respective sell rule, see abstract) and to allow the human being to monitor said order in real time (i.e., WealthBuilder also provides a real time internet client allowing users to monitor trade execution and position values held so

Art Unit: 3628

that a customer can feel connected to the trading environment. The computer makes the decisions but can be monitored remotely, see col.8 lines 20-35).

- a second interface (i.e., input) to said logic engine for processing orders (see abstract)
- a first plug-in (i.e., agent) in said logic engine for implementing the trading algorithm (col. 5, lines 5-10). Whereby said logic engine processes orders received via either of said first and second interfaces (see col. 5, lines 2-8, also see abstract); wherein said logic engine, said first interface and said second interface, and said first plug-in are software recorded on a computer-readable medium and capable of execution by a computer.

Re claim 10: Kane discloses an apparatus wherein said first interface further comprises an Input driver (i.e., agent, see col. 15, lines 5-15).

Re claim 11: Kane discloses an apparatus wherein said second interface further comprises an exchange driver (i.e., agent, see col. 15, lines 5-15).

Re claim 12: Kane discloses an apparatus wherein said first interface (i.e., input) further comprises an interface to an ordering system (see abstract).

Re claim 13: Kane discloses an apparatus wherein said second interface (i.e., input) further comprises an interface to an ordering system (see abstract).

Re claim 14: Kane further discloses an apparatus wherein said logic engine further comprises a Core Processing Area (i.e., central processing unit, see col. 5, lines 5-10).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claim 3** is rejected under 35 U.S.C. 103(a) as being unpatentable over Kane (U.S. Patent 6,317,728).

Re claim 3: Kane discloses a method wherein the step of inputting a trading order into a logic engine further comprises inputting an order through an ordering system (i.e., data acquisition system, see abstract). Kane does not explicitly disclose a method wherein the step of inputting a trading order into a logic engine further comprises inputting a complex order through an ordering system. However, since Kane does not really distinguish between "order" and "complex order." One of ordinary skill in the art would have obviously know that Kane system is sophisticated enough to handle any sort of trading orders (i.e., regular or complex).

5. **Claims 4, 6** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kane (U.S. Patent 6,317,728) in view of Microsoft Computer Dictionary (MCD hereinafter: Microsoft Computer Dictionary 5th edition, page 345).

Re claim 4: Kane discloses a method for computerized trading comprising: the steps of processing trading orders (see abstract). Kane does not explicitly disclose a step of de-

Art Unit: 3628

constructing said Complex Order into at least one event and action. However, the method of deconstructing complex order into event/action is old and well known and it a well-taught modular design method in object-oriented modular programming (see Microsoft computer dictionary 5th edition, page 345). Therefore, it would have been obvious to one of ordinary skill in the art to implement this well-taught modular design method in Kane to allow programmers to debug and recover very quickly from program crashes.

Re claim 6: Kane discloses a method for computerized trading comprising:

- A human being entering parameters for a trading algorithm to input a ComplexOrder into a logic engine through an ordering system.
- using a first plug-in (i.e., agent) in said logic engine for implementing the trading algorithm (see col. 5, lines 5-10).
- inputting data for said order into said logic engine (see abstract).
- Kane discloses a method wherein the step of executing said order further comprises outputting said order through an ordering system (col. 3, lines 34-36).
- said human being monitoring said order in real time (i.e., WealthBuilder also provides a real time internet client allowing users to monitor trade execution and position values held so that a customer can feel connected to the trading environment. The computer makes the decisions but can be monitored remotely, see col.8 lines 20-35). However, Kane does not explicitly teach the step of deconstructing said complex order into events and actions. The method of deconstructing complex order into event/action is a well-taught modular design in object-oriented modular programming (see Microsoft computer

dictionary 5th edition, page 345). Therefore, it would have been obvious to one of ordinary skill in the art to implement this well-taught modular design method in Kane to allow programmers to debug and recover very quickly from program crashes.

Response to Arguments

6. Applicant's arguments filed 02/17/06 have been fully considered but they are not persuasive. In the remarks, the applicant argues in substance that Kane's system is "fully automated" and thus does not call for a human being monitoring order in real time. In response to the applicant's argument, the examiner maintains that Kane's system is indeed fully automated, but at the same time, it provides a real time internet client allowing users to monitor trade execution and position values held so that a customer can feel connected to the trading environment. Thus the computer makes the decisions but can be monitored remotely (please see KANE col.8 lines 20-35).

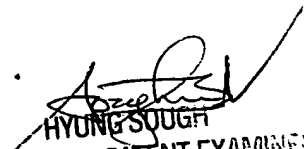
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OJO O. OYEBISI whose telephone number is (571) 272-8298. The examiner can normally be reached on 8:30A.M-5:30P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HYUNG S. SOUGH can be reached on (571)272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3628

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


HYUNG SOUGH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600